

-81 2 BOLT

ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.	ASSY QTY						
						Х		-1	1	LOWER JAW WELDMENT			4	
						2		-3		LOWER JAW SIDE PLATE	6061		5	
						1		-5		LOWER JAW FACE PLATE	5052		6	
						1		-7		LOWER JAW LATCH PLATE	6061		7	
						1		-9		LOWER JAW ANGLE	5052		8	
					2	2		-11		HINGE PLATE	6061		9	
					4	5		-13		LOWER JAW BRACE	6061		10	
					Χ			-15	1	UPPER JAW WELDMENT			11	
					2			-17		UPPER JAW SIDE PLATE	6061		12	
					1			-19		UPPER JAW PLATE	5052		13	
					1			-21		ANGLE BRACE	6063		14	
					1			-23		ANGLE BRACE 2	6063		15	
					2			-25		UPPER JAW BRACE, SHORT	6061		16	
				Χ				-27	1	HANDLE WELDMENT			17	
				1				-29		HANDLE	6063		18	
				2				-31		HANDLE ARM	6063		19	
				1				-33		HANDLE BRACE	6063		20	
				1				-35		LATCH BLOCK	6061		21	
			Χ					-37	1	HOOK WELDMENT			22	
			1					-39		ROD	304 S.S.		23	
			1					-41		HOOK	304 S.S.		24	
		Χ						-43	1	LATCH WELDMENT			25	
		1						-45		LATCH CATCH	5052		26	
		1						-47		LATCH HOOK	6061		27	
								-49	2	LATCH BRACKET	6061		28	
	Χ							-50	1	LIFT ARM WELDMENT			29	
	1							-51		LIFT ARM	6061		30	ASSY -69
	2							-52		LIFT ARM END CAP	6061		31	
								-53	1	CLEVIS	A-36 P & O		32	
								-55	2	SPACER BLOCK	6061		33	
								-57	4	HANDLE BLOCK	6061		34	
								-59	1	HINGE SPACER	6061		35	
								-61	1	SHORT HINGE SPACER	6061		36	
							B/O	-63	2	FOAM	T-20	3/4 X 8 X 15-1/8 (CASE SOLUTIONS)	37	
							B/O	-65	1	FOAM, ANGLE BLOCK	T-20	3/4 X 1-1/8 X 8 (CASE SOLUTIONS)	38	-
							B/O	-67	2	FOAM BACKING	NEOPRENE	1/8 X 8 X 15-1/4 GASKET SPECIALITY	39	-
Χ								-69	2	SPRING ASSEMBLY			40	-
1							B/O	-71		SPRING	S.S.	DENDOFF	41	
1								-73		TUBE, LONG	NYLON	Ø1/4 OD .17 ID X1-3/8 (MCMASTER-CARR #5548K64)	42	_
1								-75		TUBE, LONG	NYLON	Ø1/4 OD .17 ID X 1/2 (MCMASTER-CARR #5548K64)	43	-
							B/O	-77	1	STICKER	VINYL, BLACK	TEXT; ARIAL HT; 1/2 SIGNS NOW	44	-
ASSY -69	ASSY -50	ASSY -43	ASSY -37	ASSY -27	ASSY -15	ASSY -1								

								-, -	٠.			4		-
5								B/O	-83	1	BOLT	STEEL	5/16-24 X 6-1/2 (MCMASTER-CARR #91257A451)	3
6								B/O	-85	3	LOCK NUT	STEEL	5/16-24 (MCMASTER-CARR #97135A225)	3
7								В/О	-87	3	WASHER	STEEL	Ø5/16 (MCMASTER-CARR #90126A030)	3
8								B/O	-89	5	BOLT	STEEL	1/4-28 X 1-1/4 (MCMASTER-CARR #91286A138)	3
9								B/O	-91	6	MACHINE SCREW	S.S.	1/4-28 X 1-1/4 (MCMASTER-CARR #91771A563)	3
10								B/O	-93	5	LOCK NUT	STEEL	1/4-28 (MCMASTER-CARR #97135A215)	3
11								B/O	-95	16	WASHER	STEEL	1/4 (MCMASTER-CARR #95229A420)	3
12								B/O	-97	2	SPACER	AL	Ø1/2 X 1/8 (MCMASTER-CARR #92510A760)	3
13								B/O	-99	1	BOLT	STEEL	3/8-24 X 3-3/4 (MCMASTER-CARR #91257A464)	3
14								B/O	-101	1	LOCK NUT	STEEL	3/8-24 (MCMASTER-CARR #97135A235)	3
15								B/O	-103	2	WASHER	STEEL	3/8 (MCMASTER-CARR #98023A031)	3
16								B/O	-105	2	THUMB NUT	S.S.	3/8-16 (MCMASTER-CARR #95150A190)	3
17								B/O	-107	1	CLEVIS PIN	S.S.	Ø1/4 X 1 (MCMASTER-CARR #92390A159)	3
18								B/O	-109	1	CLEVIS PIN	S.S.	Ø1/4 X 1-1/8 (MCMASTER-CARR #92390A160)	3
19								B/O	-111	1	SPACER	STEEL	Ø1/2 OD X Ø1/4 ID X 3/4 (MCMASTER-CARR #92415A867)	3
20									-113	1	LATCH SPRING	302 S.S.	Ø.25 OD X Ø.026 X 2 (MCMASTER-CARR #9665K85) MODIFIED	45
21								B/O	-115	1	BALL LOCK PIN	S.S.	Ø1/4 X 3/4 (MCMASTER-CARR #92384A033)	3
22								B/O	-117	2	COTTER PIN	STEEL	Ø1/16 X 3/4 (MCMASTER-CARR #98338A105)	3
23								B/O	-123	4	#2 DRIVE SCREW	COATED STEEL	1/8 (MCMASTER-CARR #90081A074)	3
24								B/O	-125	1	LANYARD	STEEL	Ø1/16 X 6 (CARR LANE #CL2C)	3
25								B/O	-127	2	FERRULE	ALUMINUM	Ø1/16 X 3/8 (MCMASTER-CARR #3896T31)	3
26								B/O	-129	1	SPLIT RING	STEEL	Ø7/8 (MCMASTER-CARR #90177A217)	3
27								B/O	-131	6	THIN LOCK NUT	STEEL	1/4-28 (SPENCER AIRCRAFT #MS21083-N4)	3
28								B/O	-133	1	FOAM PAD	Y20 BLACK	1 X 3-3/4 X 5 IR SPECIALTIES	46
29										1	DART PLACARD	ALUMINUM	#RB41011	3
30	ASSY -69	ASSY -50	ASSY -43	ASSY -37	ASSY -27	ASSY -15	ASSY							
31	-07	-30	-40	-3/	-2/	-10	-1	<u> </u>						\vdash
32														
	l													-

Description

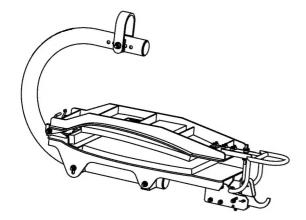
STEEL

TOOL, M/R BLADE LIFTING

B/O INFORMATION OR SPECIFICATIONS

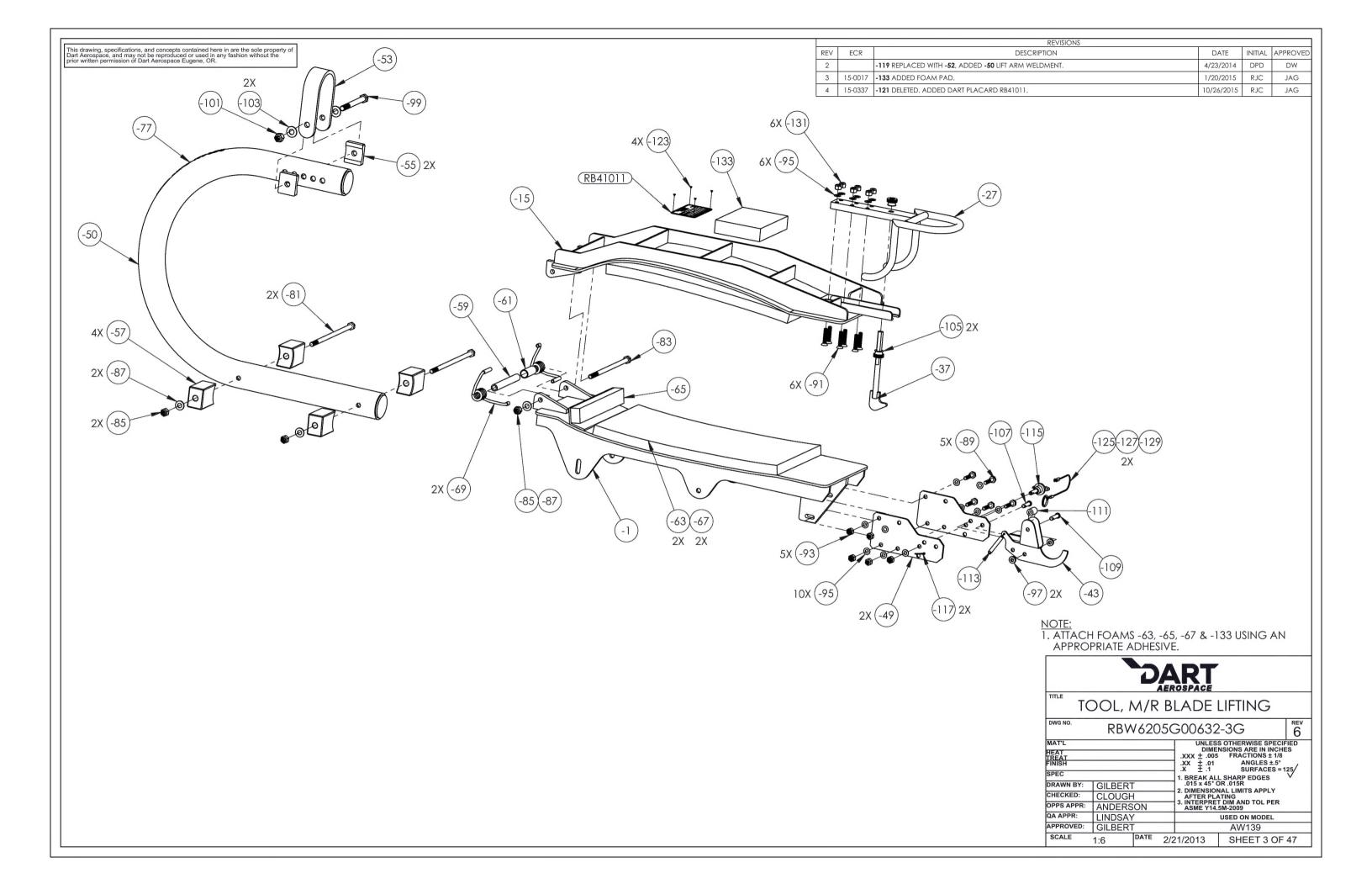
5/16-24 X 7 (MCMASTER-CARR #91257A453)

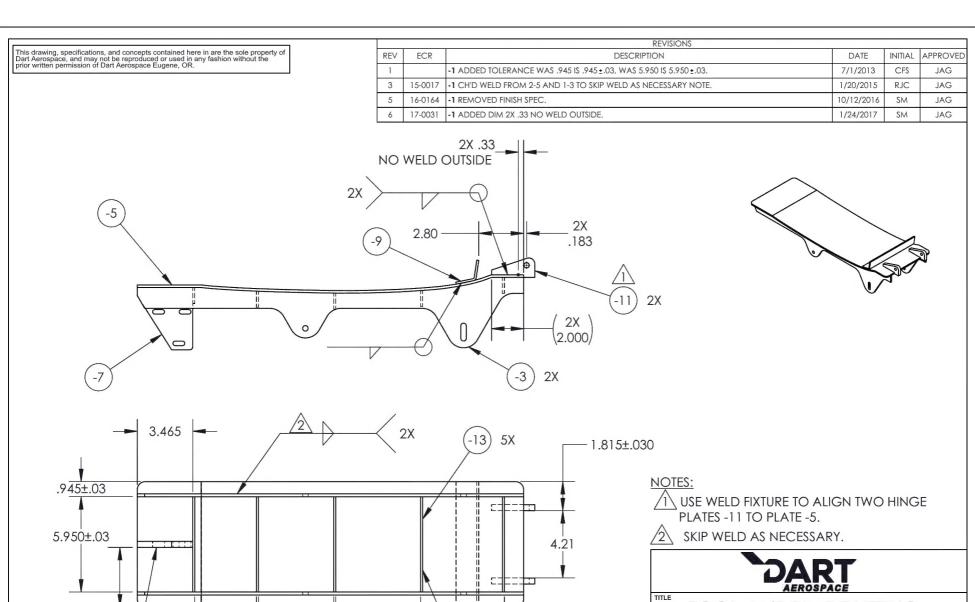
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MAT'L HEAT TREAT FINISH SPEC			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES XX ± .005 FRACTIONS ± 1/8 XX ± .001 ANGLES ± .5° X ± .11 SURFACES = 125 / EREAK ALL SHARP EDGES 0.15 x 45° OR. 0.15 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009			
DRAWN BY:	GILBERT					
CHECKED: OPPS APPR:	CLOUGH ANDERSO	N				
QA APPR:	LINDSAY		USED ON MODEL			
APPROVED:	GILBERT		AW139			
SCALE	1:6	ATE 2/2	2/21/2013 SHEET 1 OF 47			



		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-1 ADDED TOLERANCE WAS .945 IS .945±.03, WAS 5.950 IS 5.950±.0315 ADDED TOLERANCE WAS .945 IS .945±.03, WAS 5.950 IS 5.950±.03CHD TOLERANCE WAS 3.170 IS 3.17, WAS 2.580 IS 2.5839 CH'D THREAD WAS 3.8-24 IS 3/8-1645 ADDED TOLERANCE WAS 3.76 IS .76+.030053 CH'D WIDTH TOLERANCE WAS 2.500 +.010000 IS 2.500 +.0500, CH'D HIEGHT WAS 1.375 IS 1.250, CH'D HOLE LOCATION WAS .688 IS .625, RADIUS WAS .69 IS .63, CH'D THICKNESS WAS .313 IS .2563 AND -65 CHANGED MATERIAL NOTE IN BOM71 ADDED NOTE I FOR ADDITIONAL SPRING INFORMATION, MATERIAL WAS STEEL IS S.S75 ADDED MISSING P/N BUBBLE93 CH'D QTY. WAS 11 IS 5113 ADDED DE AWING TO MANUFACTURE PART131 ADDED 6 NUTS.	7/1/2013	CFS	JAG
2		-13 CH'D DIM WAS 5.90 IS 5.950 ±.03045 ADDED AUX VIEW A-A & MISSING DIMS 2X R.50, 20°71 ADDED NOTE 2 FOR ADDITIONAL SPRING INFORMATION91 CH'D B/O INFO WAS MCMASTER-CARR #91771A563. DELETED -119 & REPLACED WITH -52, ADDED -50 LIFT ARM WELDMENT.	4/23/2014	DPD	GE
3	15-0017	UPDATED TO NEW DRAWING SATNDARD1 AND -15 CH'D WELD FROM 2-5 AND 1-3 TO SKIP WELD AS NECESSARY NOTE11 CH'D DIM WAS 1.219 IS 1.22, WAS R.25 IS R.38, ADDED NOTHCHED TO AID IN POSITIONING, -21, -23 CH'D MATERIAL WAS 6061 IS 606339 ADDED MISSING DIMENSION 2X R.0371 WIRE DIAMETER CH'D PER DENDOFF WAS Ø.155 IS Ø.17073 AND -75 CH'D TUBE ID WAS Ø.150 IS Ø.170, P/N WAS 5548K918 IS 5548K64133 ADDED FOAM PAD.	1/20/2015	RJC	JAG
4	15-0337	CH'D TOLERANCE ON ALL NON-CRITICAL DIMS3, -7, -9, -17, -21, -23, -25, -29, -31 -33, -37, -39, -41, -43, -47, -49, -52, -53, -59, -61, -63, -65, -67, -73, -75, -113, -133 CH'D TO SHEET METAL TOLERANCE51 CH'D DIMS WAS 4X .775 ±.06 is 4x .775 ±.06, WAS 9.875 is 9.875 ±.06, WAS 14.313 is 14.313 ±25. CH'D TO SHEET METAL TOLERANCE63 CH'D QTY. WAS 1 is 271 DELETED NOTES 1 AND 2121 DELETED. ADDED DART PLACARD RB41011.	10/26/2015	RJC	JAG
5	16-0164	UPDATED TO NEW STANDARDS1, -15, -27, -43, -49, -50, -53, -55, -57 REMOVED FINISH SPEC15 CH'D DIM WAS 1,250+,030/-,000 IS 1,28+,03/-,00, WAS 3,17 IS 3,16, -29 CH'D DIM WAS R1,00 IS R1,50, -50 CH'D SHEET TOL WAS ±,005/±,01/±,1 IS ±,010/±,03/±,163 CH'D B/O INFO WAS 3/4 X 8 X 15-1/8 IC.ASE SOLUTIONS)65 CH'D B/O INFO WAS 3/4 X 1-1/8 X 8 IR. SPECIALTIES IS 3/4 X 1-1/8 X 8 (CASE SOLUTIONS)	10/12/2016	SM	JAG
6	17-0031	-1 ADDED DIM 2X .33 NO WELD OUTSIDE3 ADDED DIM 2X FULL R7 ADDED DIM 6X FULL R9 ADDED DIM R.0613 CH'D DIM WAS 5.950±0.30 IS 5.9515 DIMENSION ADDED 2X .33 NO WELD INSIDE; CH'D DIM WAS .945±0.31 S. 945±0.30, WAS 5.950±0.31 S 5.950±0.3029 CH'D DIM WAS R1.50 IS 2X R1.5031 CH'D DIM WAS R2.5 IS \$R.2551 CH'D DIM WAS 4X .775±0.61 S 4X .78, WAS 9.875±0.61 S 9.88, WAS 14.313±25 IS 14.563/14.06353 CH'D DIM WAS 2.500+.05/00 IS 2.55/2.5057 CH'D DIM WAS 0.41 THRU ALL ✓ Ø.45X90°, NEAR SIDE ✓ Ø.45X90°, FAR SIDE IS Ø.41 THRU ALL ✓ Ø.45X90°, BOTH SIDES; WAS 1.97 IS 1.9459 CH'D DIM WAS Ø.50 IS Ø.50061 CH'D DIM WAS Ø.53 IS Ø.52763, -65, -65 CH'D MAT'L WAS 17124 IS T-20.	1/24/2017	SM	JAG

	•		RT							
TOOL, M/R BLADE LIFTING										
DWG NO.	RBW	/62050	G00632	2-3G	6					
MAT'L HEAT TREAT FINISH SPEC DRAWN BY: CHECKED: OPPS APPR:	GILBERT CLOUGH ANDERS		DIME .XXX ± .005 .XX ± .01 .X ± .1 1. BREAK AL .015 x 45° (2. DIMENSION AFTER PLA	ANGLES ±.5° SURFACES = 1 L SHARP EDGES OR .015R NAL LIMITS APPLY TING T DIM AND TOL PER	S					
QA APPR:	LINDSAY	'	USED ON MODEL							
APPROVED:	GILBERT		AW139							
SCALE	1:12	DATE 2/2	21/2013	SHEET 2 OF	47					





TOOL, M/R BLADE LIFTING

DWG NO.

SCALE

1:6

1.20

REV 6 RBW6205G00632-3G-1 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8 TREAT FINISH POWDER COAT RED .XX ± .03 .X ± .1 ANGLES ±1° SURFACES = 125/ SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R DRAWN BY: GILBERT 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 CHECKED: CLOUGH OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: GILBERT AW139

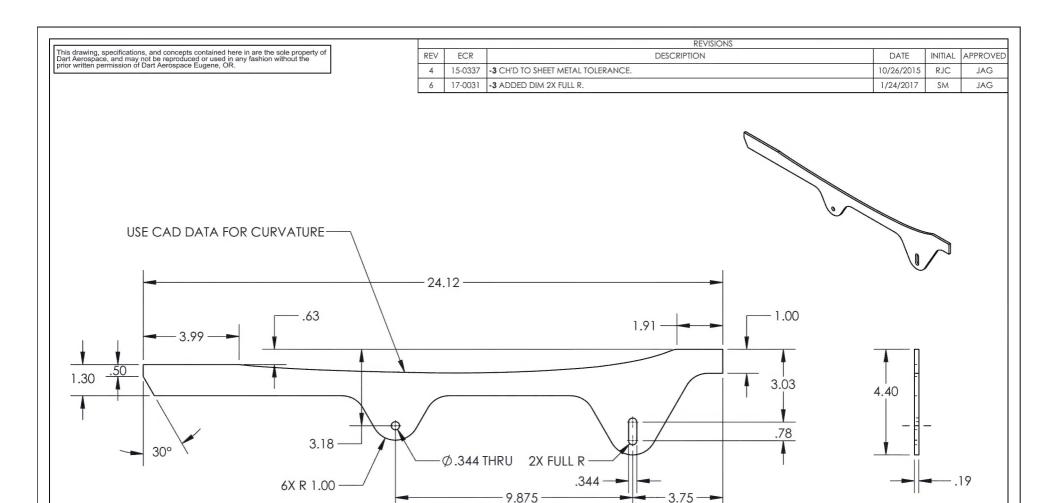
2/26/2013

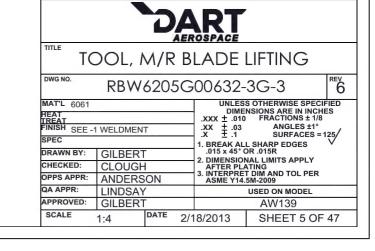
SHEET 4 OF 47

LOWER JAW WELDMENT

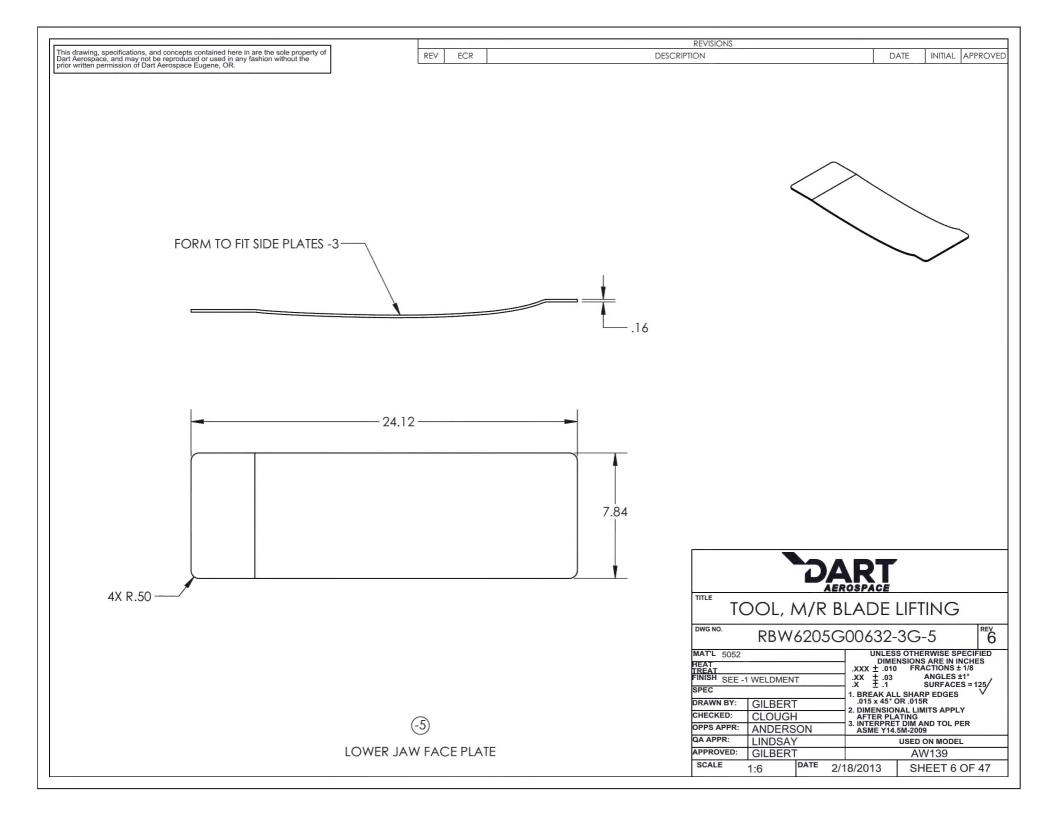
3.733

3.85

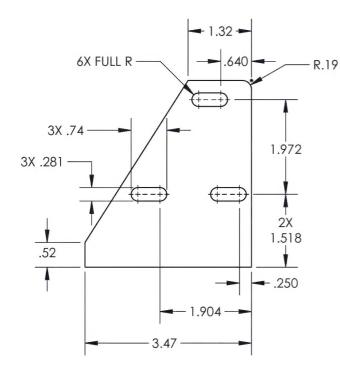


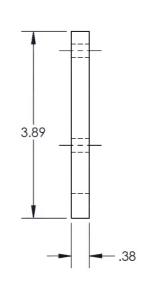


(-3)
LOWER JAW SIDE PLATE



	REVISIONS										
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED						
4	15-0337	-7 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG						
6	17-0031	-7 ADDED DIM 6X FULL R.	1/24/2017	SM	JAG						







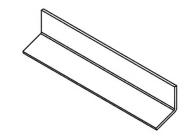
TOOL, M/R BLADE LIFTING

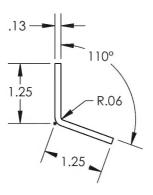
DWG NO.	RBW	620	5G	900632-3G-7			
MAT'L 6061					S OTHERWISE SPECIF		
HEAT TREAT				.XXX ± .010		-8	
	1 WELDMEN	Т		.XX ± .03	25/		
SPEC				1. BREAK ALL SHARP EDGES			
DRAWN BY:	GILBER			.015 x 45° (OR .015R NAL LIMITS APPLY		
CHECKED:	CLOUGH	1		AFTER PLA	ATING		
OPPS APPR:	ANDERS	ON		3. INTERPRE ASME Y14.	T DIM AND TOL PER 5M-2009		
QA APPR: LINDSAY				USED ON MODEL			
APPROVED: GILBER				AW139			
SCALE	1:2	DATE 2/2		21/2013	SHEET 7 OF	47	

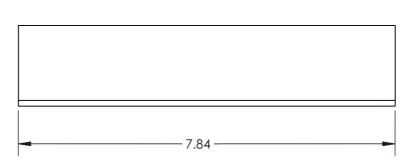


LOWER JAW LATCH PLATE

	REVISIONS											
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED							
4	15-0337	-9 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG							
6	17-0031	-9 ADDED DIM R.06.	1/24/2017	SM	JAG							









TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

SCALE

1:2

RBW6205G00632-3G-9

2/27/2013

REV 6

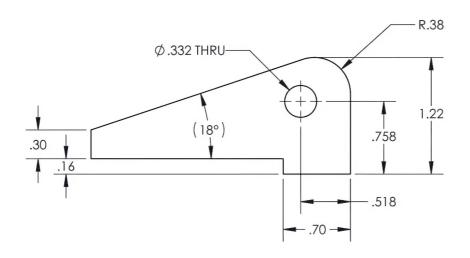
SHEET 8 OF 47

		0
MAT'L 5052		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT		.XXX ± .010 FRACTIONS ± 1/8
	1 WELDMENT	.XX ± .03 ANGLES ±1° .X ± .1 SURFACES = 125/
SPEC		1. BREAK ALL SHARP EDGES
DRAWN BY:	GILBERT	.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY
CHECKED:	CLOUGH	AFTER PLATING
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR:	LINDSAY	USED ON MODEL
APPROVED:	GILBERT	AW139

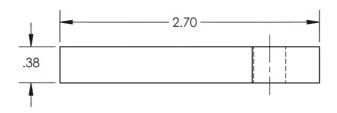
(-9)

LOWER JAW ANGLE

	REVISIONS											
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED							
3	15-0017	-11 CH'D DIM WAS 1.219 IS 1.22, WAS R.25 IS R.38, ADDED NOTHCHED TO AID IN POSITIONING.	1/20/2015	RJC	JAG							









HINGE PLATE



TITLE __

TOOL, M/R BLADE LIFTING

DWG NO.

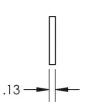
RBW6205G00632-3G-11

6

	IND IT	200		00002			U		
MAT'L 6061						ISE SPECIF			
HEAT TREAT				.xxx ± .010	RE IN INCHE IONS ± 1/8	:5			
FINISH SEE-	1 & -15 WELE	MENT		.XX ± .03		GLES ±1° RFACES = 1	25/		
SPEC				1. BREAK ALL SHARP EDGES					
DRAWN BY:	GILBERT			.015 x 45° C		ADDLV			
CHECKED:	CLOUGH	1		2. DIMENSIONAL LIMITS APPLY AFTER PLATING					
OPPS APPR:	ANDERS	ON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009					
QA APPR:	LINDSAY	′			USED ON	MODEL			
APPROVED:	GILBERT				AW1	39			
SCALE	1.1	DATE	2/2	21/2013	SHE	T 9 OF	17		

	REVISIONS										
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED						
2		-13 CH'D DIM WAS 5.90 IS 5.950 ±.030.	4/23/2014	DPD	GE						
6	17-0031	-13 CH'D DIM WAS 5.950±0.30 IS 5.95.	1/24/2017	SM	JAG						







DART

TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

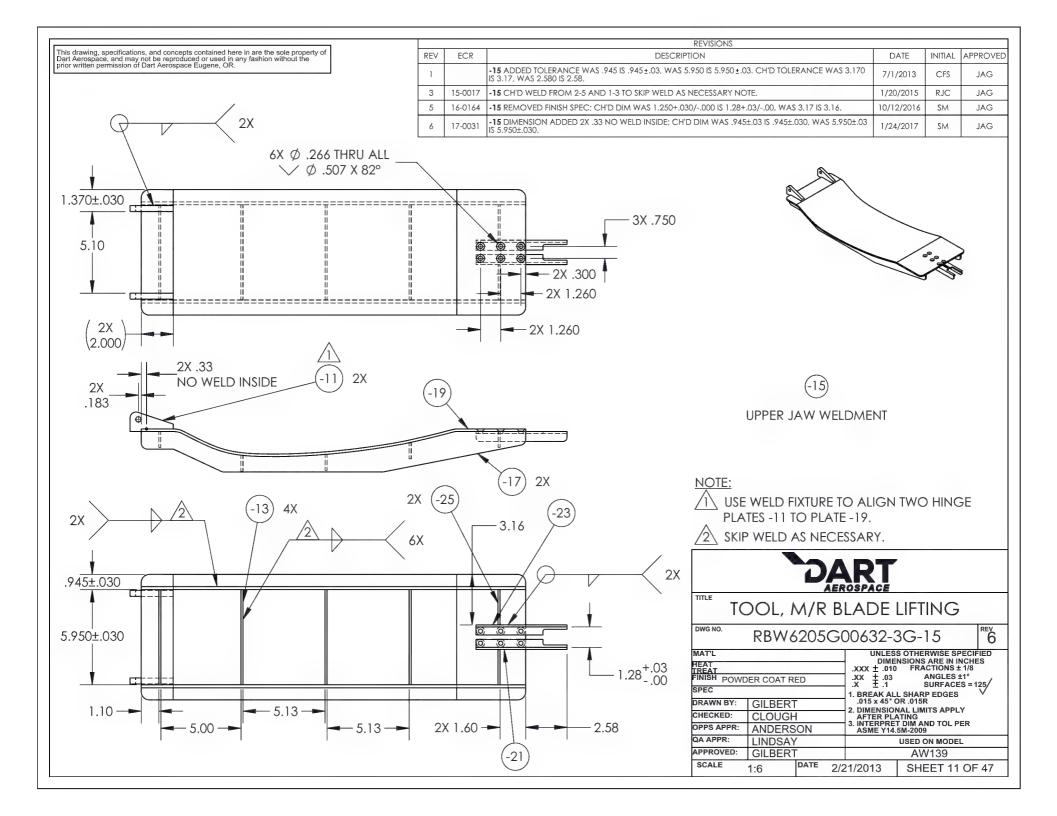
RBW6205G00632-3G-13

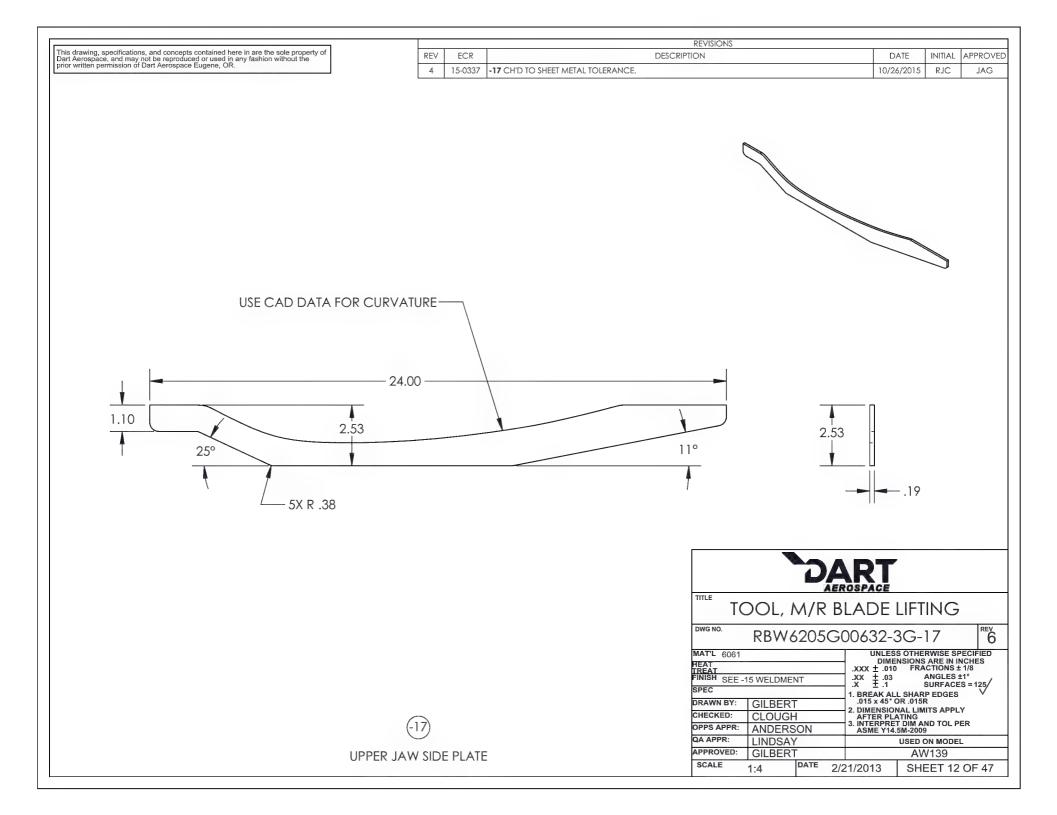
^{REV}6

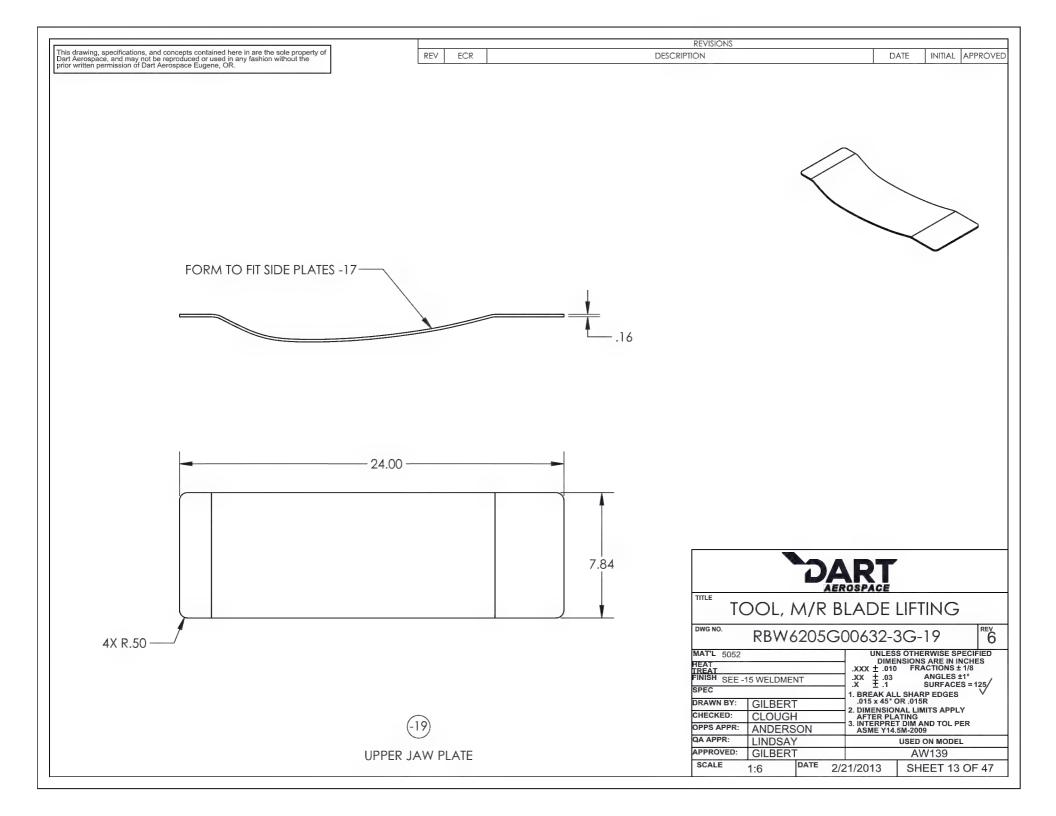
			_			_	
MAT'L 6061					S OTHERWISE SPECIF NSIONS ARE IN INCHE		
HEAT TREAT				.XXX ± .010	.3		
FINISH SEE -1 & -15 WELDMENT				.XX ± .03	ANGLES ±1° SURFACES = 1	25/	
SPEC				1. BREAK ALL SHARP EDGES			
DRAWN BY:			.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY				
CHECKED:	CLOUGH	1		AFTER PLA	TING		
OPPS APPR:	ANDERS	ON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009			
QA APPR:	LINDSAY	′		USED ON MODEL			
APPROVED: GILBERT				AW139			
SCALE 1:2 DATE 2/				21/2013	SHEET 10 OF	47	

(-13)

LOWER JAW BRACE

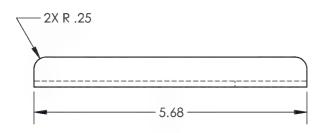


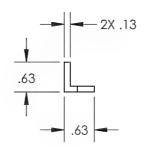


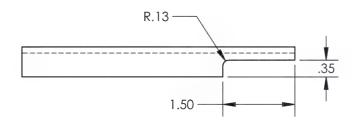


	REVISIONS									
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED					
3	15-0017	-21 CH'D MATERIAL WAS 6061 IS 6063.	1/20/2015	RJC	JAG					
4	4 15-0337 -21 CH'D TO SHEET METAL TOLERANCE,			RJC	JAG					











TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-21

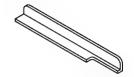
REV 6

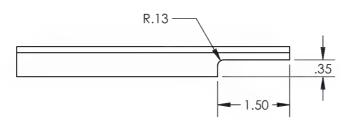
MAT'L 6063				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
HEAT TREAT				.XXX ± .010	FRACTIONS ± 1/8		
FINISH SEE -15 WELDMENT				.XX ± .03	ANGLES ±1° SURFACES = 125/		
SPEC				1. BREAK ALL SHARP EDGES			
DRAWN BY:	GILBERT			.015 x 45° OR .015R -2. DIMENSIONAL LIMITS APPLY AFTER PLATING -3. INTERPRET DIM AND TOL PER			
CHECKED:	CLOUGH	1					
OPPS APPR:	ANDERS	ON		ASME Y14.			
QA APPR:	LINDSAY	′			USED ON MODEL		
APPROVED:	GILBERT	_		AW139			
SCALE	1.2	DATE	2/2	21/2013	SHEET 14 OF 47		

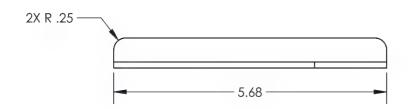
(-21)

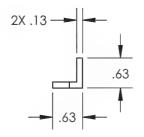
ANGLE BRACE

	REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
3	15-0017	-23 CH'D MATERIAL WAS 6061 IS 6063.	1/20/2015	RJC	JAG				
4	15-0337	-23 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG				











TOOL, M/R BLADE LIFTING

IG NO. DR\A

RBW6205G00632-3G-23

REV 6

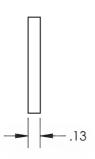
MAT'L 6063			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
HEAT TREAT			.XXX ± .010	FRACTIONS ± 1/8				
FINISH SEE -15 WELDMENT				.XX ± .03	ANGLES ±1° SURFACES = 125/			
SPEC				1. BREAK ALL SHARP EDGES				
DRAWN BY:	GILBERT	Γ		.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY				
CHECKED:	CLOUGH	1		AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009				
OPPS APPR:	ANDERS	ON						
QA APPR:	LINDSAY			USED ON MODEL				
APPROVED:	GILBERT	Γ		AW139				
SCALE 1:2 DATE				26/2013 SHEET 15 OF 4				

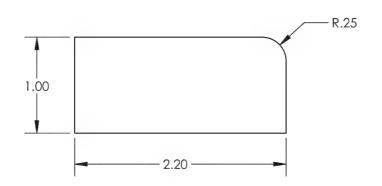
-23)

ANGLE BRACE 2

	REVISIONS								
REV	ECR			INITIAL	APPROVED				
4	15-0337	-25 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG				







TOOL, M/R BLADE LIFTING

REV 6

RBW6205G00632-3G-25 MAT'L 6061 UNLESS OTHERWISE SPECIFIED HEAT TREAT FINISH SEE -15 WELDMENT SURFACES = 125 SPEC A T.I.

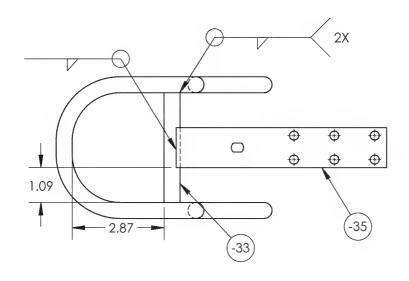
1. BREAK ALL SHARP EDGES

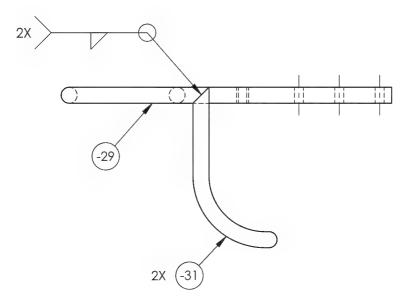
.015 x 45° OR .015R

2. DIMENSIONAL LIMITS APPLY
AFTER PLATING
3. INTERPRET DIM AND TOL PER
ASME Y14.5M-2009 DRAWN BY: GILBERT CHECKED: CLOUGH OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: GILBERT AW139 SCALE 2/21/2013 **SHEET 16 OF 47**

UPPER JAW BRACE, SHORT

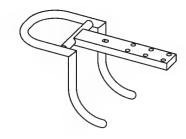
	revisions									
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED					
5	16-0164	-27 REMOVED FINISH SPEC.	10/12/2016	SM	JAG					







HANDLE WELDMENT





TITLE

TOOL, M/R BLADE LIFTING

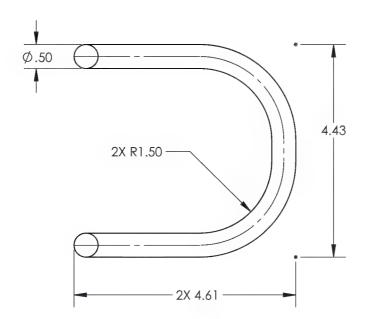
DWG NO.

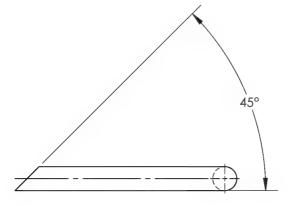
RBW6205G00632-3G-27

6
_

MAT'L				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
HEAT TREAT			.XXX ± .010 FRACTIONS ± 1/8					
	DER COAT R	ED	.XX ± .03	ANGLES ±1° SURFACES = 125/	/			
SPEC				1. BREAK ALL SHARP EDGES				
DRAWN BY: CLOUGH				.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY				
CHECKED:	CLOUGH	1		AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009				
OPPS APPR:	ANDERS	ON						
QA APPR:	LINDSAY	1		USED ON MODEL				
APPROVED:	GILBER	Γ		AW 139				
SCALE	1.3	DATE	2/1	12/2013	SHEET 17 OF 4	7		

	REVISIONS .								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
4	15-0337	-29 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG				
5	16-0164	-29 CH'D DIM WAS R1.00 IS R1.50.	10/12/2016	SM	JAG				
6	17-0031	-29 CH'D DIM WAS R1.50 IS 2X R1.50.	1/24/2017	SM	JAG				







HANDLE



TITLE

TOOL, M/R BLADE LIFTING

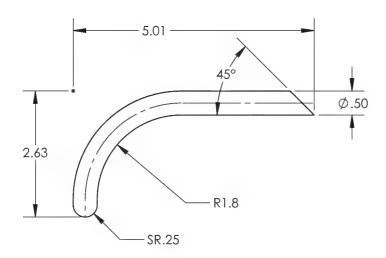
DWG NO.

RBW6205G00632-3G-29

REV 6

MAT'L 6063				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
HEAT TREAT			.XXX ± .010	FRACTIONS ± 1/8				
FINISH SEE -27 WELDMENT				.XX ± .03	ANGLES ±1° SURFACES = 125/			
SPEC				1. BREAK ALL SHARP EDGES				
DRAWN BY:	CLOUGH			.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY				
CHECKED: CLOUGH				AFTER PLATING				
OPPS APPR:	ANDERS	ON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009				
QA APPR:	LINDSAY	′		USED ON MODEL				
APPROVED:	GILBERT	•	AW 139					
SCALE	1:2	DATE	2/1	12/2013	SHEET 18 OF 47			

	REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
4	15-0337	-31 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG				
6	17-0031	-31 CH'D DIM WAS R.25 IS SR.25.	1/24/2017	SM	JAG				







TOOL, M/R BLADE LIFTING

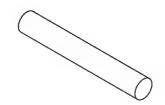
⁶ RBW6205G00632-3G-31

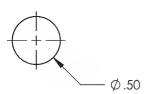
MAT'L 6063					S OTHERWISE SPECIFIED NSIONS ARE IN INCHES	5
HEAT TREAT				.xxx ± .010		
TREAT FINISH SEE-	27 WELDME	NT		.XX ± .03	ANGLES ±1° SURFACES = 125/	/
SPEC				1. BREAK AL	L SHARP EDGES	
DRAWN BY:	CLOUGH	1		.015 x 45° C	OR .015R NAL LIMITS APPLY	
CHECKED:	CLOUGH	1		AFTER PLA	TING	
OPPS APPR:	ANDERS	ON		ASME Y14.	F DIM AND TOL PER 5M-2009	
QA APPR:	LINDSAY	1			USED ON MODEL	
APPROVED:	GILBER	Γ			AW 139	
SCALE	1.2	DATE	2/1	12/2013	SHEET 19 OF 4	7

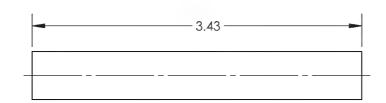
(-31)

HANDLE ARM

	revisions						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED		
4	15-0337	-33 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG		









TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-33

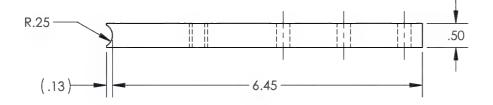
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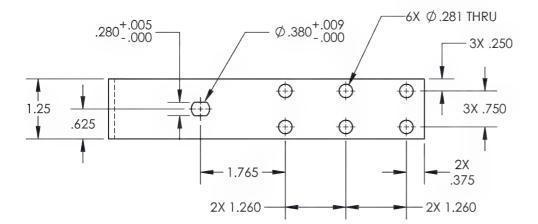
MAT'L 6063					S OTHERWISE SPECIFIED		
HEAT TREAT				.xxx ± .010	NSIONS ARE IN INCHES FRACTIONS ± 1/8		
TREAT FINISH SEE	27 WELDME	NT		.XX ± .03	ANGLES ±1° SURFACES = 125/		
SPEC				1. BREAK AL	L SHARP EDGES		
DRAWN BY:	CLOUGH	1		.015 x 45° C	OR .015R NAL LIMITS APPLY		
CHECKED:	CLOUGH	1		AFTER PLATING			
OPPS APPR:	ANDERS	SON		ASME Y14.	F DIM AND TOL PER 5M-2009		
QA APPR:	LINDSA	Y			USED ON MODEL		
APPROVED:	GILBER [*]	Т			AW139		
SCALE	1.1	DATE	2/1	12/2013	SHEET 20 OF 47		

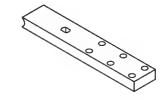
(-33)

HANDLE BRACE

		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED









ITLE _

TOOL, M/R BLADE LIFTING

DWG NO.

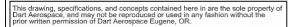
RBW6205G00632-3G-35

REV 6

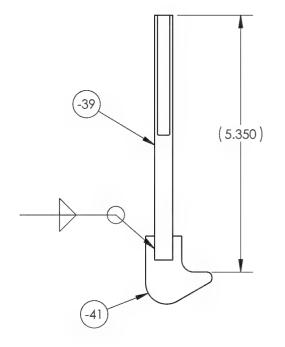
					0		
MAT'L 6061					S OTHERWISE SPECIFIED NSIONS ARE IN INCHES		
HEAT TREAT				.XXX ± .005	FRACTIONS ± 1/8		
FINISH SEE -27 WELDMENT				.XX ± .01	ANGLES ±.5° SURFACES = 125/		
SPEC				1. BREAK ALL SHARP EDGES			
DRAWN BY:	GILBERT			.015 x 45° OR .015R - 2. DIMENSIONAL LIMITS APPLY AFTER PLATING - 3. INTERPRET DIM AND TOL PER			
CHECKED:	CLOUGH	1					
OPPS APPR:	ANDERS	NOS		ASME Y14.			
QA APPR:	LINDSAY	′			USED ON MODEL	Ξ	
APPROVED:	GILBERT	_			AW139	_	
SCALE	1:2	DATE	2/2	21/2013	SHEET 21 OF 47		

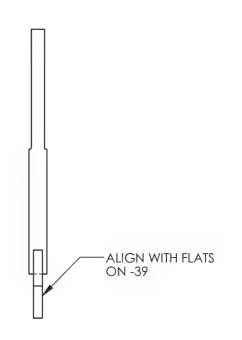


LATCH BLOCK



		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	15-0337	-37 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG









TOOL, M/R BLADE LIFTING

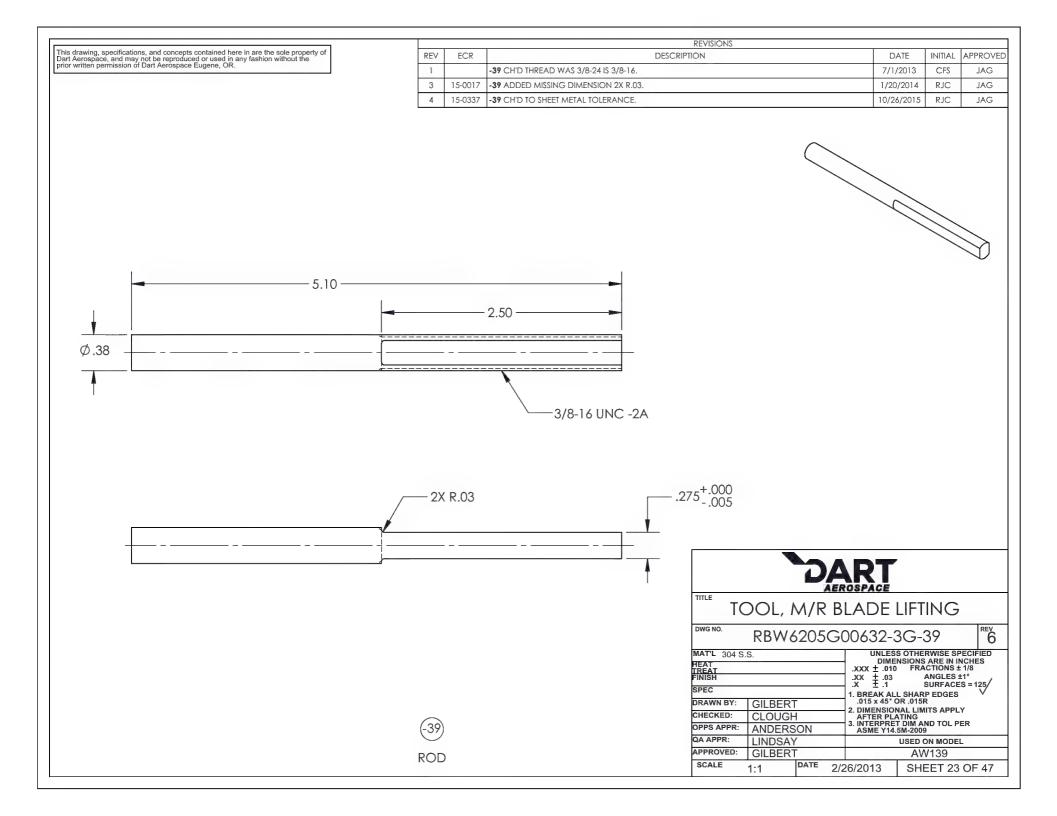
RBW6205G00632-3G-37

MAT'L				UNLESS OTHERWISE SPECIFIED				
HEAT					NSIONS ARE IN INCHES FRACTIONS ± 1/8			
TREAT FINISH				.XXX ± .010				
				.XX ± .03	SURFACES = 125/			
SPEC				1. BREAK AL	L SHARP EDGES			
DRAWN BY:	GILBERT	-		.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING				
CHECKED:	CLOUGH	1						
	CLUUGI	1		3. INTERPRET DIM AND TOL PER				
OPPS APPR:	ANDERS	ON		ASME Y14.				
QA APPR:	LINDSAY	′			USED ON MODEL			
APPROVED:	GILBERT	-		AW139				
SCALE	1:2	DATE	2/2	26/2013	SHEET 22 OF 47			

REV 6

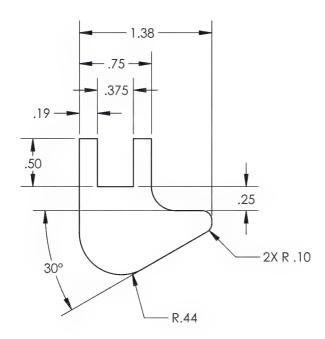


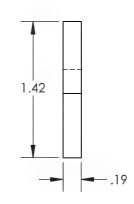
HOOK WELDMENT



	REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED		
4	15-0337	-41 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG		









TOOL, M/R BLADE LIFTING

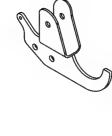
RBW6205G00632-3G-41

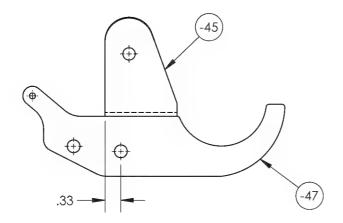
							_
MAT'L 304 S	.S.					OTHERWISE SPECIFIINSIONS ARE IN INCHES	
HEAT TREAT				.xxx ±			,
TREAT FINISH				xx ‡	.03 .1	ANGLES ±1° SURFACES = 12	5/
SPEC				1. BREA	K ALL	SHARP EDGES	7
DRAWN BY:	GILBER1					R .015R IAL LIMITS APPLY	
CHECKED:	CLOUGH	1		AFTER	R PLA	TING	
OPPS APPR:	ANDERS	ON				DIM AND TOL PER 5M-2009	
QA APPR:	LINDSAY	′				USED ON MODEL	
APPROVED:	GILBERT	_				AW139	
SCALE	1:1	DATE	2/2	26/2013	3	SHEET 24 OF	47

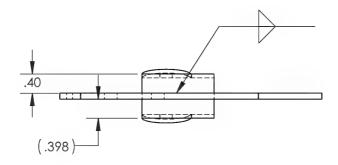


HOOK

		revisions			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	15-0337	-43 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG
5	16-0164	-43 REMOVED FINISH SPEC.	10/12/2016	SM	JAG









LATCH WELDMENT

DART

TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-43

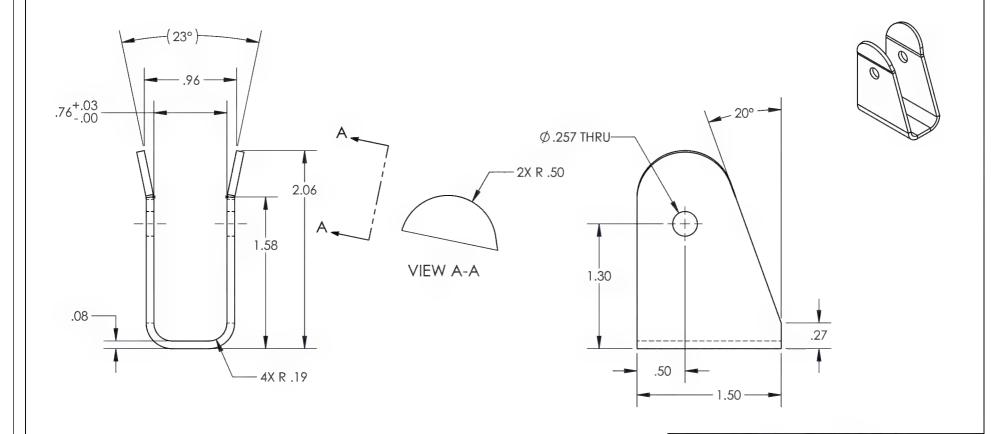
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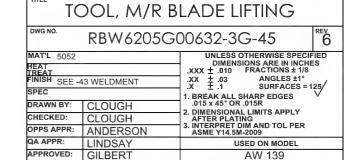
	KDTTC	200		00002	70 -10	U		
MAT'L					S OTHERWISE SPECIF			
HEAT TREAT	TREAT				DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8			
FINISH POWDER COAT RED				.XX ± .03	ANGLES ±1° SURFACES = 1	25/		
SPEC				1. BREAK AL	L SHARP EDGES	V		
DRAWN BY:	CLOUGH	1		.015 x 45° C	OR .015R NAL LIMITS APPLY			
CHECKED:	CLOUGH	1		AFTER PLA	ATING			
OPPS APPR:	ANDERS	ON		ASME Y14.	F DIM AND TÖL PER 5M-2009			
QA APPR:	LINDSAY	/			USED ON MODEL			
APPROVED:	GILBERT				AW139			
SCALE	1.2	DATE	2/1	12/2013	SHEET 25 OF	47		

		revisions			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-45 ADDDED TOLERANCE WAS .76 IS .76 +.0300.	7/10/2013	RJC	JAG
2		-45 ADDED AUX VIEW A-A & MISSING DIMS 2X R.50, 20°.	4/24/2014	DPD	RJC

SCALE

1:1





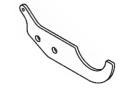
2/12/2013

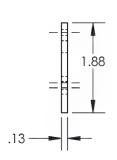
SHEET 26 OF 47

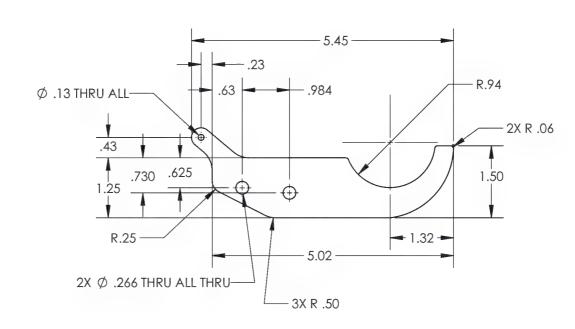


LATCH CATCH

	REVISIONS									
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED					
4	15-0337	-47 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG					







DART

TOOL, M/R BLADE LIFTING

REV 6

RBW6205G00632-3G-47

MAT'L 6061 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

.XXX ± .010 FRACTIONS ± 1/8

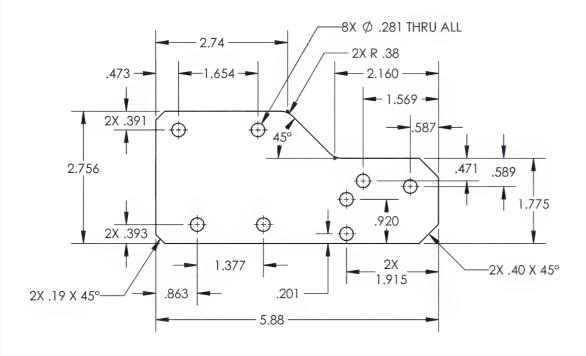
.XX + .03 ANGLES ±1°

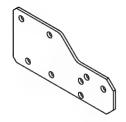
X ± .1 SURFACES = 125/ HEAT TREAT FINISH SEE -43 WELDMENT SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 DRAWN BY: CLOUGH CHECKED: CLOUGH OPPS APPR: ANDERSON QA APPR: USED ON MODEL LINDSAY APPROVED: GILBERT AW 139 SCALE 1:2 2/12/2013 **SHEET 27 OF 47**

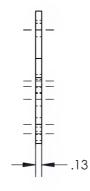


LATCH HOOK

	REVISIONS										
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED						
4	15-0337	-49 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG						
5	16-0164	-49 REMOVED FINISH SPEC.	10/12/2016	SM	JAG						









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TOOL, M/R BLADE LIFTING

DWG NO.

SCALE

1:2

RBW6205G00632-3G-49

2/26/2013

REV 6

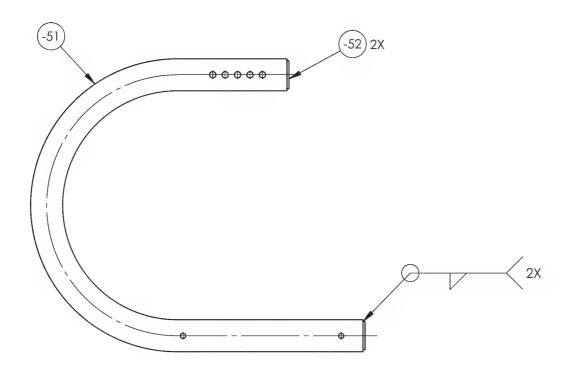
SHEET 28 OF 47

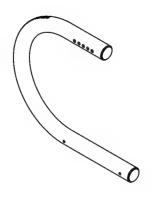
MAT'L 6061		UNLESS OTHERWISE SPECIFIED
HEAT TREAT		DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8
	ER COAT RED	XX ± .03 ANGLES ±1° X ± .1 SURFACES = 125/
SPEC		1. BREAK ALL SHARP EDGES
DRAWN BY:	GILBERT	.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY
CHECKED:	CLOUGH	AFTER PLATING
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR:	LINDSAY	USED ON MODEL
APPROVED:	GILBERT	AW139



LATCH BRACKET

	REVISIONS									
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED					
2		-50 ADDED WELDMENT.	4/28/2014	DPD	GE					
5	16-0164	-50 REMOVED FINISH SPEC, CH'D SHEET TOL WAS ±.005/±.01/±.1 IS ±.010/±.03/±.1.	10/12/2016	SM	JAG					





DART

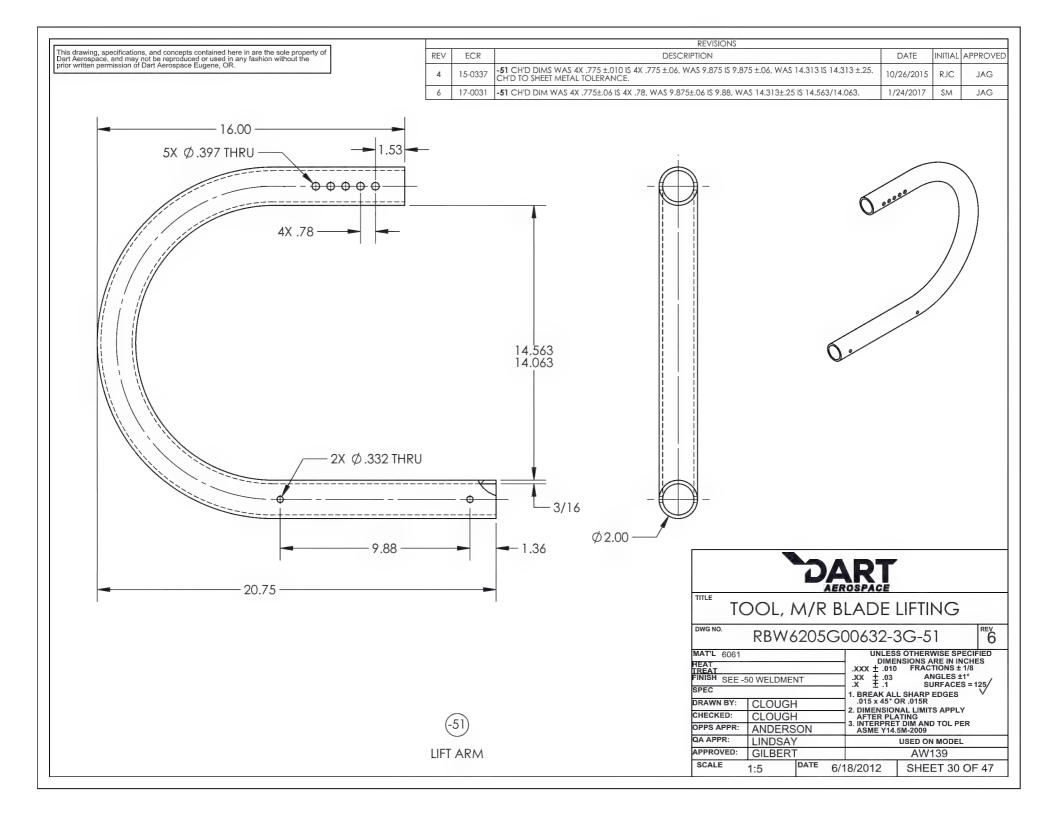
TOOL, M/R BLADE LIFTING

RBW6205G00632-3G-50

IAT'L				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .xxx ± .010 FRACTIONS ± 1/8				
EAT REAT								
REAT INISH POWDER COAT RED			.XX ± .03	ANGLES ±1° SURFACES = 125/				
PEC			1. BREAK ALL SHARP EDGES					
RAWN BY: GILBERT				.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY				
HECKED:	CLOUGH			AFTER PLATING 3. INTERPRET DIM AND TOL PER				
PPS APPR:	ANDERS	ON		ASME Y14.				
A APPR:	LINDSAY	′		USED ON MODEL				
PPROVED: GILBERT			AW139					
SCALE 1:6		2/2	21/2013	SHEET 29 OF 47				

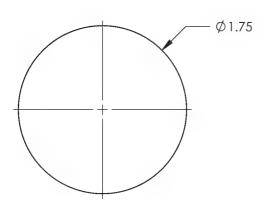
(-50)

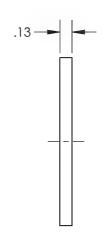
LIFT ARM WELDMENT



REVISIONS .								
REV	ECR	DESCRIPTION			APPROVED			
2		-52 ADDED PART TO REPLACE -119.	4/28/20104	DPD	GE			
4	15-0337	-52 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG			









TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-52

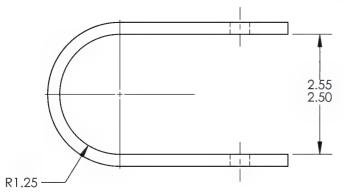
REV 6

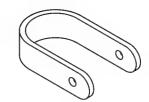
RB77020000002 00 02									
MAT'L 6061	MAT'L 6061				UNLESS OTHERWISE SPECIF DIMENSIONS ARE IN INCHE				
HEAT TREAT FINISH SEE -50 WELDMENT SPEC			.xxx ± .010		-3				
			.XX ± .03	ANGLES ±1° SURFACES = 1	25/				
				1. BREAK AL	L SHARP EDGES	7			
DRAWN BY:	DRAWN BY: GILBERT			.015 x 45° C	OR .015R NAL LIMITS APPLY				
CHECKED:	CLOUGH	1		AFTER PLA	TING				
OPPS APPR:	ANDERS	ANDERSON			3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009				
QA APPR:	LINDSAY	′			USED ON MODEL				
APPROVED:	GILBERT			AW139					
SCALE	1:1	1:1 DATE 2		21/2013	SHEET 31 OF	47			

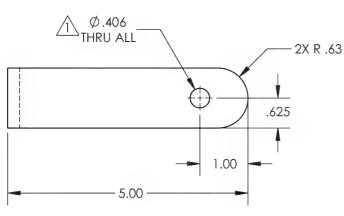
(-52)

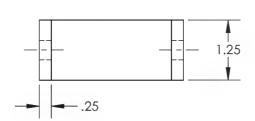
LIFT ARM END CAP

	REVISIONS										
RE	/ ECR	DATE	INITIAL	APPROVED							
1		7/1/2013	CFS	JAG							
4	15-0337	-53 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG						
5	16-0164	-53 REMOVED FINISH SPEC.	10/12/2016	SM	JAG						
6	17-0031	-53 CH'D DIM WAS 2.500+.05/00 IS 2.55/2.50.	1/24/2017	SM	JAG						









NOTE:

 \setminus HOLE TO BE DRILLED AFTER PART IS FORMED.



TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-53

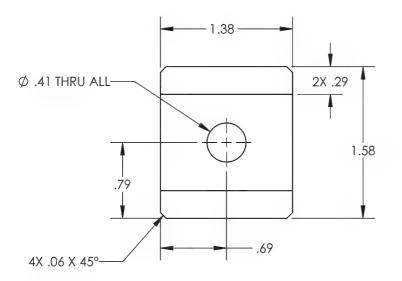
REV 6

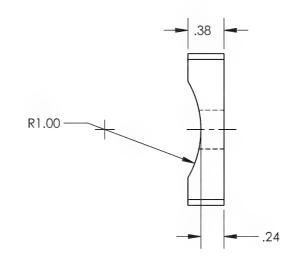
MAT'L A-36 P	MAT'L A-36 P & O				S OTHERWISE SPECIFIED			
HEAT TREAT				DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8				
FINISH POWDER COAT RED				.XX ± .03	ANGLES ±1° SURFACES = 125/			
SPEC				1. BREAK ALL SHARP EDGES				
DRAWN BY:	DRAWN BY: CLOUGH				.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY			
CHECKED:	CLOUGH	1		AFTER PLATING 3. INTERPRET DIM AND TOL PER				
OPPS APPR:	ANDERS	ON		ASME Y14.				
QA APPR:	LINDSAY	′		USED ON MODEL				
APPROVED: GILBERT				AW139				
SCALE 1:2 DATE 6/				18/2012	SHEET 32 OF 47			

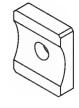
-53

CLEVIS

	REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
5	16-0164	-55 REMOVED FINISH SPEC.	10/12/2016	SM	JAG				











TITLE

TOOL,M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-55

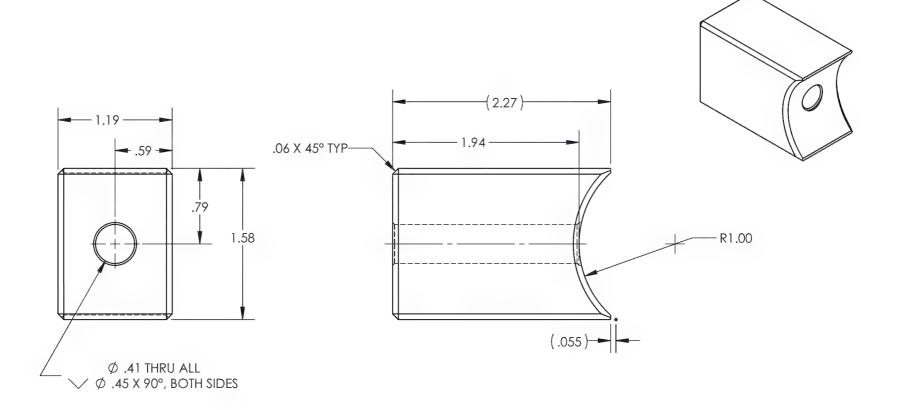
REV 6

						U
MAT'L 6061			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
HEAT TREAT				.xxx ± .005	FRACTIONS ± 1/8	-3
FINISH POWDER COAT RED			.XX ± .01	ANGLES ±.5° SURFACES = 1	25/	
SPEC			1. BREAK AL	L SHARP EDGES	7	
DRAWN BY: CLOUGH				.015 x 45° C		
CHECKED:	CLOUGH	1		2. DIMENSIONAL LIMITS APPLY AFTER PLATING		
OPPS APPR:	ANDERS	SON		ASME Y14.	T DIM AND TOL PER 5M-2009	
QA APPR:	LINDSAY	′		USED ON MODEL		
APPROVED: GILBERT			AW139			
SCALE	1:1	DATE	2/1	12/2013	SHEET 33 OF	47

-55)

SPACER BLOCK

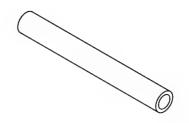
╗			REVISIONS			
	REV	ECR	DATE	INITIAL	APPROVED	
	5	16-0164	-57 REMOVED FINISH SPEC.	10/12/2016	SM	JAG
	6	17-0031	-57 CH'D DIM WAS Ø.41 THRU ALL \(\sqrt{0.45X90°}, NEAR SIDE \(\sqrt{0.45X90°}, FAR SIDE IS Ø.41 THRU ALL \(\sqrt{0.45X90°}, BOTH SIDES; WAS 1.97 IS 1.94.	1/24/2017	SM	JAG

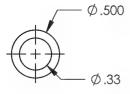


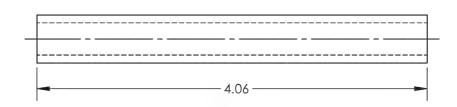


TOOL, M/R BLADE LIFTING RBW6205G00632-3G-57 6 MAT'L 6061 UNLESS OTHERWISE SPECIFIED HEAT TREAT FINISH POWDER COAT RED DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 .X ± .1 ANGLES ±.5° SURFACES = 125 SPEC 1. BREAK ALL SHARP EDGES .015 x 45 'OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 DRAWN BY: GILBERT CHECKED: CLOUGH OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: GILBERT AW139 SCALE 2/21/2013 **SHEET 34 OF 47**

	REVISIONS									
REV	ECR	DESCRIPTION		INITIAL	APPROVED					
4	15-0337	-59 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG					
6	17-0031	-59 CH'D DIM WAS Ø.50 IS Ø.500.	1/24/2017	SM	JAG					









TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-59

^{REV}

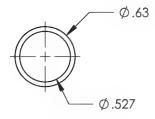
	110110			00002	000	
MAT'L 6061 HEAT TREAT				DIME .XXX ± .010		
FINISH CLEAR ANODIZE				.XX ± .03	ANGLES ±1° SURFACES = 1	25/
SPEC MIL-A-8625F, TYPE II, CLASS I				1. BREAK AL	L SHARP EDGES	7
DRAWN BY:	GILBERT	•		.015 x 45° (OR .015R NAL LIMITS APPLY	
CHECKED:	CLOUGH	.OUGH		AFTER PLA		
OPPS APPR:	ANDERS	ON		ASME Y14.	T DIM AND TOL PER 5M-2009	
QA APPR:	LINDSAY	′			USED ON MODEL	
APPROVED:	GILBERT	-			AW139	
SCALE	1:1	DATE	2/2	26/2013	SHEET 35 OF	47

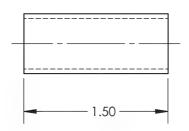
(-59)

HINGE SPACER

	REVISIONS									
REV	ECR	DESCRIPTION		INITIAL	APPROVED					
4	15-0337	-61 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG					
6	17-0031	-61 CH'D DIM WAS Ø.53 IS Ø.527.	1/24/2017	SM	JAG					







TOOL, M/R BLADE LIFTING

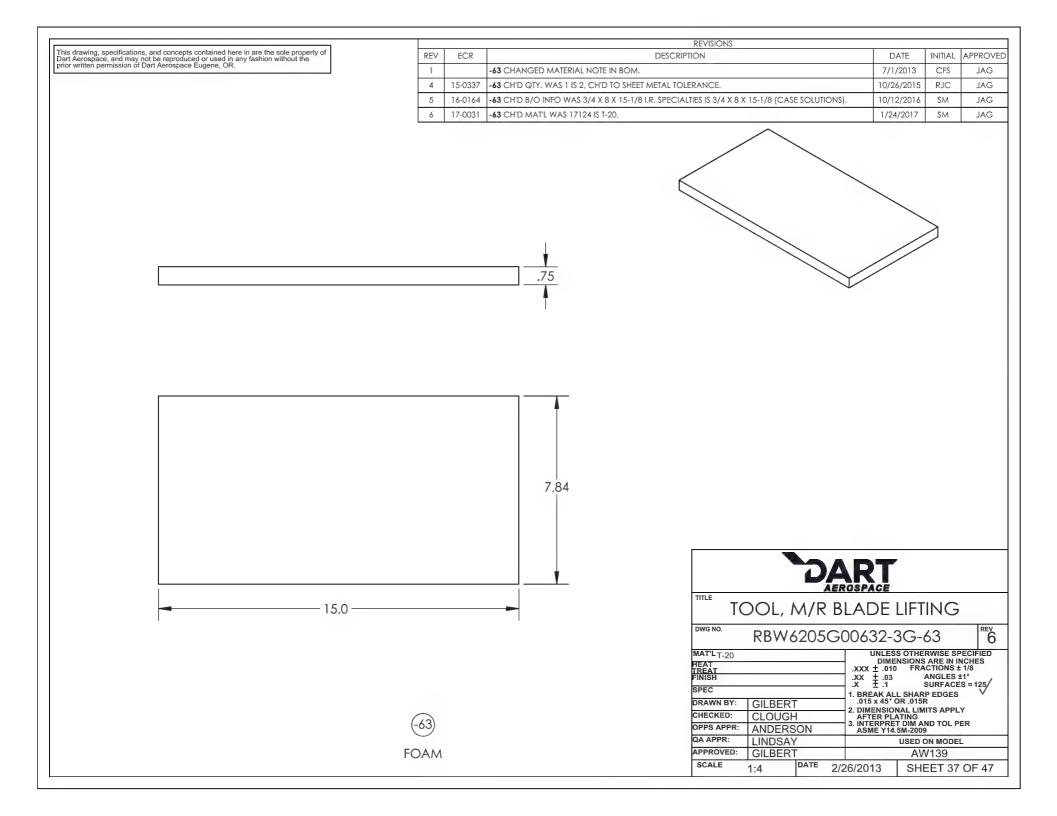
1:1

SHEET 36 OF 47

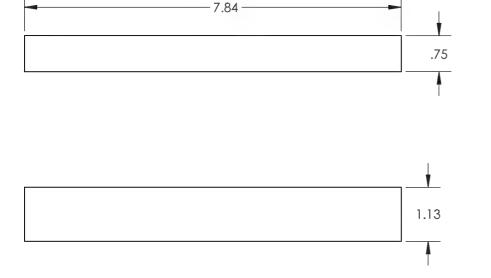
DWG NO.	RBW6205G0	00632-3	3G-61 * 6	
MAT'L 6061 HEAT TREAT			S OTHERWISE SPECIFIED NSIONS ARE IN INCHES FRACTIONS ± 1/8	
	R ANODIZE	XX ± 03 X ± 1	ANGLES ±1° SURFACES = 125/	
SPEC MIL-A	-8625, TYPE II, CLASS I	1. BREAK AL	L SHARP EDGES	
DRAWN BY:	GILBERT	.015 x 45° (OR .015R NAL LIMITS APPLY	
CHECKED:	CLOUGH	AFTER PLA	ATING	
OPPS APPR:	ANDERSON	ASME Y14.	T DIM AND TOL PER 5M-2009	
QA APPR:	LINDSAY		USED ON MODEL	
APPROVED:	GILBERT		AW139	
SCALE	1·1 DATE 2/2	26/2013	SHEET 36 OF 47	

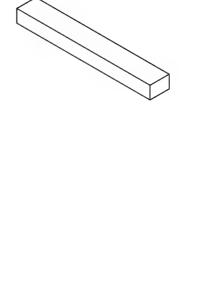
2/26/2013

SHORT HINGE SPACER



REVISIONS This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR. DESCRIPTION APPROVED REV ECR DATE INITIAL CFS -65 CHANGED MATERIAL NOTE IN BOM. 7/1/2013 JAG 4 15-0337 -65 CH'D TO SHEET METAL TOLERANCE. 10/26/2015 RJC JAG 5 -65 CH'D B/O INFO WAS 3/4 X 1-1/8 X 8 I.R. SPECIALTIES IS 3/4 X 1-1/8 X 8 (I.R. SPECIALTIES) 10/12/2016 SM JAG 16-0164 6 17-0031 -65 CH'D MAT'L WAS 17124 IS T-20. 1/24/2017 SM JAG







TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-65

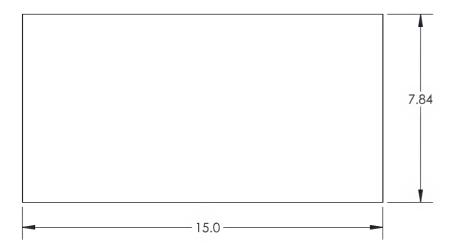
REV 6

MAT'LT-20 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ±1° SURFACES = 125 SPEC 1. BREAK ALL SHARP EDGES .015 x 45 'OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 DRAWN BY: GILBERT CHECKED: CLOUGH OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: GILBERT AW139 SCALE 2/27/2013 **SHEET 38 OF 47** 1:2



FOAM, ANGLE BLOCK

	REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
4	15-0337	-67 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG				
6	17-0031	-67 CH'D MAT'L WAS 17124 IS T-20.	1/24/2017	SM	JAG				





TITLE

-.13

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-67

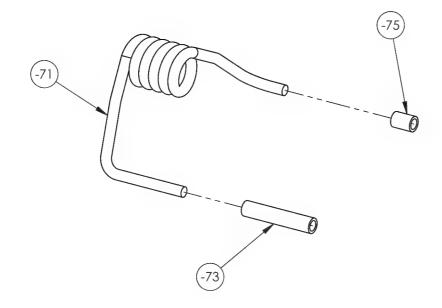
REV

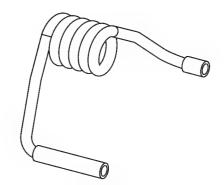
	112110	,		00002	0,			
MAT'L NEOP	MAT'L NEOPRENE				UNLESS OTHERWISE SPECIFIED			
HEAT TREAT				DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8				
FINISH				.XX ± .03	ANGLES ±1° SURFACES = 1	25/		
SPEC			1. BREAK AL	L SHARP EDGES	7			
DRAWN BY:	DRAWN BY: GILBERT			.015 x 45° OR .015R				
CHECKED:	CLOUGH	1		- 2. DIMENSIONAL LIMITS APPLY AFTER PLATING - 3. INTERPRET DIM AND TOL PER				
OPPS APPR:	ANDERS	ON		ASME Y14.				
QA APPR:	LINDSAY	′		USED ON MODEL				
APPROVED:	GILBERT	_			AW139			
SCALE	1:4	DATE	2/2	27/2013	SHEET 39 OF	47		



FOAM BACKING

	REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				







SCALE

1:1.5

TOOL, M/R BLADE LIFTING

DWG NO.	RBW6205G0	00632-3G-69	^{REV}
MAT'L HEAT		UNLESS OTHERWISE SPECIF DIMENSIONS ARE IN INCHE .XXX + .005 FRACTIONS ± 1/8	
TREAT FINISH		.XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 12	25/
SPEC		1. BREAK ALL SHARP EDGES	V
DRAWN BY:	GILBERT	.015 x 45° OR .015R	
CHECKED:	CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR:	LINDSAY	USED ON MODEL	
APPROVED:	GILBERT	AW139	

3/20/2013

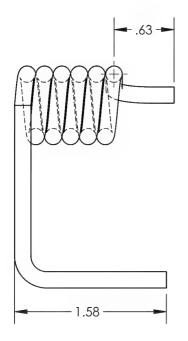
SHEET 40 OF 47

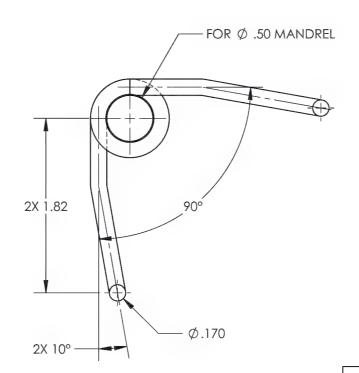


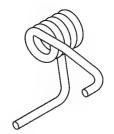
SPRING ASSEMBLY

	REVISIONS REVISIONS										
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED						
1		-71 ADDED NOTE 1 FOR ADDITIONAL SPRING INFORMATION. MATERIAL WAS STEEL IS S.S.	7/10/2013	RJC	DW						
2		-71 ADDED NOTE 2 FOR ADDITIONAL SPRING INFORMATION.	4/28/2014	DPD	RJC						
3	15-0017	-71 WIRE DIAMETER CH'D PER DENDOFF WAS Ø.155 IS Ø.170.	1/20/2015	RJC	JAG						
4	15-0337	-71 DELETED NOTES 1 AND 2.	10/26/2015	RJC	JAG						

DWG NO.







TOOL, M/R BLADE LIFTING

RBW6205G00632-3G-71

6

MAT'L S.S. UNLESS OTHERWISE SPECIFIED SURFACES = 125/ SPEC A T.I.

1. BREAK ALL SHARP EDGES

.015 x 45° OR .015R

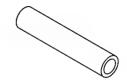
2. DIMENSIONAL LIMITS APPLY
AFTER PLATING
3. INTERPRET DIM AND TOL PER
ASME Y14.5M-2009 DRAWN BY: GILBERT

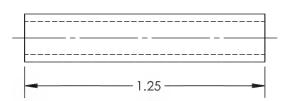
CHECKED: CLOUGH OPPS APPR: ANDERSON

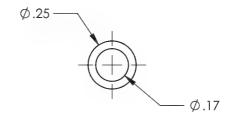
QA APPR: USED ON MODEL LINDSAY APPROVED: GILBERT AW139 SCALE 1:1 2/26/2013 **SHEET 41 OF 47**

SPRING

	revisions									
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED					
3	15-0017	-73 CH'D TUBE ID WAS Ø.150 IS Ø.170, P/N WAS 5548K918 IS 5548K64.	1/20/2015	RJC	JAG					
4	15-0337	-73 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG					









TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-73

RE(

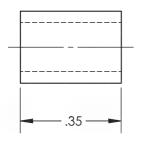
MAT'L NYLON			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES XXX + .010 FRACTIONS ± 1/8			
HEAT TREAT						
FINISH				.XX ± .03	ANGLES ±1° SURFACES = 12	·=/
SPEC			1. BREAK ALL SHARP EDGES		7	
DRAWN BY: GILBERT				.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY		
CHECKED:	CLOUGH	1		AFTER PLATING 3. INTERPRET DIM AND TOL PER		
OPPS APPR:	ANDERS	ON		ASME Y14.		
QA APPR:	LINDSAY	′		USED ON MODEL		
APPROVED: GILBERT				AW139		
SCALE 2:1		DATE	3/2	20/2013	SHEET 42 OF	47

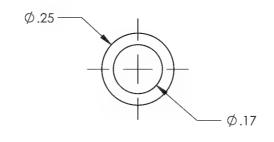


TUBE, LONG

	REVISIONS REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
1		-75 ADDED MISSING P/N BUBBLE.	7/1/2013	CFS	JAG				
3	15-0017	-75 CH'D TUBE ID WAS Ø.150 IS Ø.170, P/N WAS 5548K918 IS 5548K64,	1/20/2015	RJC	JAG				
4	15-0337	-75 CH'D TO SHEET METAL TOLERANCE.	10/26/2015	RJC	JAG				









TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-75

6

	KDVVC	1200		00002-0	00-73	U	
MAT'L NYLON HEAT TREAT FINISH			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX + .03 ANGLES ±1° .X ± .1 SURFACES = 125/				
SPEC			1. BREAK ALL SHARP EDGES		2 3/		
DRAWN BY:	GILBERT			.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY			
CHECKED:	CLOUGH	CLOUGH			AFTER PLATING 3. INTERPRET DIM AND TOL PER		
OPPS APPR:	ANDERS	ANDERSON			5M-2009		
QA APPR:	LINDSAY				USED ON MODEL		
APPROVED:	GILBERT			AW139			
SCALE	3:1 DATE 3/2			20/2013	SHEET 43 OF	47	

(-75)

TUBE, LONG

		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

SCALE



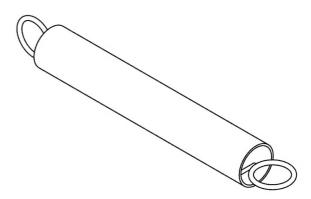


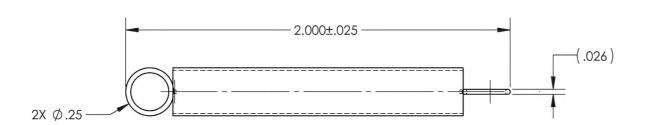


2/28/2013

SHEET 44 OF 47

	REVISIONS REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	
1		-113 ADDED DRAWING TO MANUFACTURE PART.	7/10/13	RJC	JAG	
4	15-0337	-113 CH'D TO SHEET METAL TOLERANCE,	10/29/2015	RJC	JAG	







TITLE

TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-113

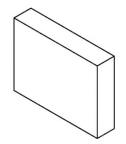
REV 6

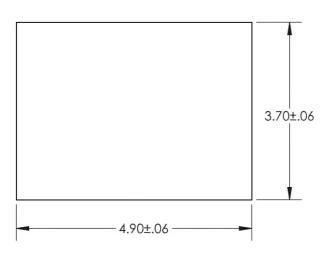
	_			0002 0	0 1.0	
MAT'L 302 S.S.			UNLESS OTHERWISE SPECIFIED			
HEAT TREAT			.XXX ± .010		ES	
FINISH			.XX ± .03	ANGLES ±1° SURFACES =	125/	
SPEC					L SHARP EDGES	\vee
DRAWN BY:	CLOUGH	1		.015 x 45° C	OR .015R NAL LIMITS APPLY	
CHECKED:	CLOUGH	1		AFTER PLA		
OPPS APPR:	ANDERS	ON		ASME Y14.		
QA APPR:	LINDSAY	′			USED ON MODEL	
APPROVED:	GILBERT					
SCALE	1:1	DATE	7/1	10/2013	SHEET 45 OF	47

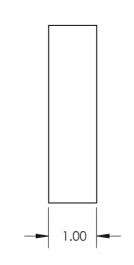
(-113

LATCH SPRING

	revisions					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	
3	15-0017	-133 ADDED FOAM PAD.	1/20/2015	RJC	JAG	
4	15-0337	-133 CH'D TO SHEET METAL TOLERANCE,	10/26/2015	RJC	JAG	









TOOL, M/R BLADE LIFTING

DWG NO.

RBW6205G00632-3G-133

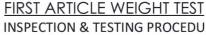
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	110,10			0002 0	0 .00	0
MAT'L Y20 BLACK			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES XXX ± .010 FRACTIONS ± 1/8			
HEAT TREAT						
FINISH			.XX ± .03	ANGLES ±1° SURFACES = 12	E/	
SPEC				L SHARP EDGES	7	
DRAWN BY:	CLOUGH			.015 x 45° OR .015R - 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER		
CHECKED:	CLOUGH					
OPPS APPR:	ANDERSON			ASME Y14.		
QA APPR:	LINDSAY			USED ON MODEL		
APPROVED:	GILBERT			AW139		
SCALE	1:1	DATE	1/2	20/2015	SHEET 46 OF	47

-133

FOAM PAD

REV ECR	DESCRIPTION	DATE	INITIAL	APPROVED



INSPECTION & TESTING PROCEDURES FOR THE RBW6205G00632-3G, M/R BLADE LIFTING TOOL. THIS ASSEMBLY IS DESIGNED TO LIFT A MAIN ROTOR. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST

- 1. AFTER INSPECTION, PLACE 300 LBS. IN M/R BLADE LIFTING TOOL. LIFT M/R BLADE LIFTING TOOL USING AN APPROPRIATE LIFTING DEVICE, FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
- 3. REMOVE WEIGHT AND RE-INSPECT TOOL, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR:	
TESTER:	
S.N.:	
DATE:	



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TITLE

TOOL, M/R BLADE LIFTING

RBW6205G00632-3G 6 CUSTO

CUSTOMER 1 OF 1
SHEET 47 OF 47

